

SEQUENCE LISTING

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 FARRELL, Patrick J.
 BEHIE, Leo A.

<120> SEQUENCES FOR IMPROVING THE EFFICIENCY OF SECRETION OF
 NON-SECRETED PROTEINS FROM MAMMALIAN AND INSECT CELLS

<130> 028722-207

<140> 09/256,694

<141> 1999-02-24

<150> US 09/136,421

<151> 1998-08-20

<150> US 60/056,871

<151> 1997-08-21

<160> 14

<170> PatentIn Ver. 2.0

<210> 1

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Encodes a
 portion of SEQ ID NO.: 12.

<400> 1

aaaggatcca atgccacatc atcatcatca tcatggcggc ggc

43

<210> 2

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Encodes a
 portion of SEQ ID NO.: 12.

<400> 2

aaaaccatgg cctgggtcct tgcgtcgtc gtcgccgcg cc

42

<210> 3

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer for PCR amplification.

<400> 3

gggctaccat ggagaaaaaa atcactgg

28

<210> 4

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer for PCR amplification.

<400> 4

gggtgctcta gaatttctgc cattcatcc

29

<210> 5

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer for PCR amplification.

<400> 5

aaaaggatcc atgacttcac acgtactcgc

30

<210> 6

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer for PCR amplification.

<400> 6

aaaaggatcc ttcaagcggg cttctactg

29

<210> 7

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Encodes a portion for SEQ ID NO.: 12.

<400> 7

aaaagcatgc cctgggtcct tgcgctcgtc gtcgccgcg cc

42

<210> 8

<211> 25
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer for PCR amplification.

<400> 8
tgtgggcatg cagagcgtgg cgaag

25

<210> 9
<211> 31
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer for PCR amplification.

<400> 9
cgacattcaa atctagaata agtcccccta c

31

<210> 10
<211> 26
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer for PCR amplification.

<400> 10
gaaggatccg atgtggctgc agagcc

26

<210> 11
<211> 26
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer for PCR amplification.

<400> 11
caaggatccc tcctggactg gctccc

26

<210> 12
<211> 17
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Has a cleavage site recognized by the protease porcine intestine

enteropeptidase.

<400> 12

Pro His His His His His Gly Gly Gly Asp Asp Asp Asp Lys Asp
1 5 10 15

Pro

<210> 13

<211> 1691

<212> DNA

<213> *Heliothis virescens*

<400> 13

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caggagacaa attcgcgcag cgtggctgcc catctggact ccggcattat acgcggcgctg 120
ccgcgctcag cggatggcat caagttcgcc agcttcctag gagtgcctta cgctaagcag 180
cctgttggag aactcaggtt taaggagctc gagcctctag aaccttggga taatatcctg 240
aacgcaacaa atgaaggacc catctgcttc caaacagatg tattatacgg gaggtcatg 300
gcggaagcg agatgagcga ggcttgcata tacgccaaac ttcatgttcc atggcaaagc 360
cttccccgag tgaggggggac cacaccttta cggcctatcc tgggtgttcat acatgggtgga 420
ggatttgctt tcggctccgg ccacgaggac ctacacggac cagaatattt ggtcactaag 480
aatgtcatcg tcatcacggt taattacaga ttgaacgtct tcggtttccct gtccatgaac 540
acaacaaaaa tccccgggaa tgccgggtctc cgggatcagg taaccctggt gcgctgggtg 600
caaaggaacg ccaagaattt cggaggagac ccagcgcaca tcaccatagc ggggcagagc 660
gctgggtgcat cagctgcgca tctactgact ctttctaaag ctactgaagg tcttttcaaa 720
agagcgattc tgatgagcgg aacaggaatg agctacttct ttactacttc tccacttttc 780
gcggcctaca tttcgaaaca gttgttgcaa atcctgggca atcaacgaga cggatccgaa 840
gaaatacatc ggcagctcat cgacctaccg gcagagaaac tgaacgaggc taacgccgtc 900
ctgattgaac aaattggcct gacaaccttc ctccctattg tggaatcccc actacctgga 960
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gttccacttt taattaggatt taccagctca gaatgcgaga ctttccgcaa tcgactattg 1080
aaatttgatc tcgtcaaaaa gattcaggac aatcctaaga tcataatacc gcctaaactg 1140
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tacaacggta caataagtat cgataacttc gtaaaatcat gttcagatgg cttctatgaa 1260
taccctgcat tgaaactggc gcaaaaacgt gccgaaactg gtggagctcc actgtacttg 1320
taccggttcg cgtacgaggg tcagaacagc atcatcaaga aggtaatggg gctgaaccac 1380
gagggtgtcg gccacattga ggacttaacc tatgtgttta aggtcaactc tatgtccgaa 1440
gctctgcacg catcgccttc tgagaatgat gtgaaaatga agaattctaat gacgggctat 1500
ttcttaaatt ttataaagtg cagtcaaccg acatgcgaag acaataactc attggagggtg 1560
tgcccggtca acaacggcat gcaatacgag gacattgtgt ctcccaccat catcagatcc 1620
aaggagtctg cctccagaca acaagacatt atcgagttct tcgacagctt caccagtaga 1680
agcccgttg a 1691

<210> 14

<211> 435

<212> DNA

<213> Human

<400> 14

atgtggctgc agagcctgct gctcttgggc actgtggcct gcagcatctc tgcacccgcc 60
cgctcgccca gcccagcac gcagccctgg gagcatgtga atgccatcca ggaggcccg 120
cgtctcctga aactgagtag agacactgct gctgagatga atgaaacagt agaagtcac 180

tcagaaatgt ttgacctcca ggagccgacc tgcctacaga cccgcctgga gctgtacaag 240
cagggcctgc ggggcagcct caccaagctc aagggcccct tgaccatgat ggccagccac 300
tacaagcagc actgccctcc aaccccgga acttcctgtg caaccagat tatcaccttt 360
gaaagtttca aagagaacct gaaggacttt ctgcttgtca tcccctttga ctgctgggag 420
ccagtccagg agtga 435

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